Bruhath Bangalore Mahanagara PalikeYelahanka Zone

Name of Work:Construction of drains and providing grills at BB road in Kempegowda ward No.01

	Job Code:001-21-000013				*Est .Cost Rs.70.00 Lakhs*				
Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	**Earth work excavation for foundation of building** water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications.**(Page No. 6 / Item No. 2.4 of PWD SR 2018-19)**								
	Works at BB Road								
	For Vidhanasoudha Grill Work								
	Upto to Entrance Gate		1	49.00	0.60	0.75	22.05		
	From gate to Dead End		1	75.00	0.30	0.75	16.88		
		Cum					**38.93**	**562.40**	**21891.42**
	Basic Rate	449.00							
	Loading and Unloading	57.00							
	Lead for earth 8km=(8*1.28*2)	20.48							
	Area Weightage 8%	35.92							
	Total	**562.40**							
2	KSRB 4-1.2 : Providing and laying in position plain **cement concrete of mix 1:3:6 with OPC** cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS **(P.No. 12/I.No. 4.2 of PWD 2018-19)**								
	Works at BB Road								
	For Vidhanasoudha Grill Work								
	Upto to Entrance Gate		1	49.00	0.60	0.15	4.41		
	From gate to Dead End		1	75.00	0.30	0.15	3.38		
		Cum					**7.79**	**5873.09**	**45722.00**
	Basic Rate	5194.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1323.43	Note:- (220*300.78/50)=1323.43						
	Sub Total	**5438.05**							
	Area Weightage 8%	435.04							
	Total	**5873.09**							
3	KSRB 4.2.7: Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6 Specification No. KBS 4.1, 4.6. **(Page No. 14, Item No. 4.12, PWD SR 2018-19)**								
	Works at BB Road								
	Below Ground Level								
	Plinth beam								
	For Vidhanasoudha Grill Work								
	Upto to Entrance Gate		1	49.00	0.50	0.60	14.70		
	From gate to Dead End		1	75.00	0.30	0.60	13.50		
		Cum					**28.20**	**6935.93**	**195593.37**
	Basic Rate	6045.00							

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1668.14	Note:- (340*490.63/100)=1668.14						
	Add Cement cost as per Issue rate	2045.30	Note:- (340*300.78/50)=2045.30						
	Sub Total	**6422.16**							
	Area Weightage 8%	513.77							
	Total	**6935.93**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 (Page No. 18/ Item No. 4.46.2, PWD SR 2018-19)**								
	Consider 100 kg per cum of concrete			28.20	100.00		2820.00		
		Tonne					**2.82**	**84247.56**	**237578.12**
	Basic Rate	78007.00							
	Area Weightage 8%	6240.56							
	Total	**84247.56**							
5	**Providing and removing centering shuttering** strutting propping etc., and removal of form work for sides and soffits of **beams beam houchings** cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification **(Page No. 17/ Item No. 4.34, PWD SR 2018-19)**								
	Plinth beam								
	Works at BB Road								
	Below Ground Level								
	Plinth beam								
	For Vidhanasoudha Grill Work								
	Upto to Entrance Gate		2	49.00		0.60	58.80		
	From gate to Dead End		2	75.00		0.60	90.00		
		Sqm					**148.80**	**315.36**	**46925.57**
	Basic Rate	292.00							
	Area Weightage 8%	23.36							
	Total	**315.36**							
6	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrow head at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. **(Data Rate)**								
	Works at BB Road								
	For Vidhanasoudha Grill Work								
	Upto to Entrance Gate		1	49.00		2.10	102.90		
	From gate to Dead End		1	75.00		2.10	157.50		
		Sqm					**260.40**	**9144.14**	**2381134.06**
	Data Rate	**9144.14**							

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
7	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications. **(P. No. 45 / I. No. 7.38 of PWD 2018-19)**								
	SS Hand Railing At BB Road								
	From Railway Under Bridge		1	184.00		1.50	276.00		
		Sqm					**276.00**	**6502.68**	**1794739.68**
	Basic Rate	6021.00							
	Area Weightage 8%	481.68							
	Total	**6502.68**							
8	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
	For CC Road								
	Cross Road From BB Road								
			1	104.00	6.50	0.15	101.40		
		Cum					**101.40**	**215.28**	**21829.39**
	Basic Rate	130.00							
	Loading and Unloading	57.00							
	Lead for earth 8km=(8*1.28*2)	20.48							
	Area Weightage 6%	7.80							
	Total	**215.28**							
9	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No-147 Item no - 19.64 of KPWD SR 2018-19)								
	For CC Road								
	Cross Road From BB Road								
			1	104.00	6.50		676.00		
		Sqm					**676.00**	**6.36**	**4299.36**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Total	**6.36**							
10	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (Page No-147 Item no - 19.60 of KPWD SR 2018-19)								
	For CC Road								
	Cross Road From BB Road					avg			
	avg		1	104.00	6.50	0.50	338.00		
		Cum					**338.00**	**344.50**	**116441.00**
	Basic Rate	325.00							
	Area Weightage 6%	19.50							
	Total	**344.50**							
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 (Page No-158 Item no - 20.18 of KPWD SR 2018-19)								

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	For CC Road								
	Cross Road From BB Road								
			1	104.00	6.50	0.10	67.60		
		Cum					**67.60**	**2001.28**	**135286.53**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
12	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)								
	For CC Road								
	Cross Road From BB Road								
			1	104.00	6.50	0.15	101.40		
		Cum					**101.40**	**5680.59**	**576011.70**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1323.43	Note:- (220*300.78/50)=1323.43						
	Sub Total	**5359.05**							
	Area Weightage 6%	321.54							
	Grand Total	**5680.59**							
13	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
	For CC Road								
	Cross Road From BB Road								
			1	104.00	6.50	0.15	101.40		
		Cum					**101.40**	**5634.27**	**571314.86**
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	2165.62	Note:- (360*300.78/50)=2165.62						
	Sub Total	**5315.35**							
	Area Weightage 6%	318.92							
	Grand Total	**5634.27**							
14	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PWD BCSR 2018-19)								

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	BB Road								
	From Railway Under Bridge								
	LHS		1	40.00	4.00	0.04	6.40		
	RHS		1	33.00	4.00	0.04	5.28		
		Cum					**11.68**	**8544.66**	**99801.63**
	As per Issue rate	8061.00							
	Area Weightage 6%	483.66							
	Total	**8544.66**							
								Total Construction Cost	**6248568.69**
								GST Charges 12%	**749828.24**
								Sub Total	**6998396.93**
								Miscellaneous and other unforseen charges	**1603.07**
								Grand Total Rs	**7000000.00**
Rupees Seventy Lakh(s) Only									

Certificate:

1) This Work Comes Within BBMP Limits.

2) Certified that personaly Inspected the Work Spot.

3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19

4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way

5) This work is not include in any other program of work.

Asst Engineer
Ward No-01

Asst Executive Engineer
Yelahanka Sub-Division

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Executive Engineer
Yelahanka Division

Administrative Approval

Accorded For RS 70 w/o Lavelle only
Head of A/C P 3853
CER NO : 02 Dt: 19.06.2021

TA

CE (YNK)

Technical Sanction

Accorded For RS 70 w/o Lavelle only
Head of A/C P 3853
CER NO : 12 Dt: 19.06.2021

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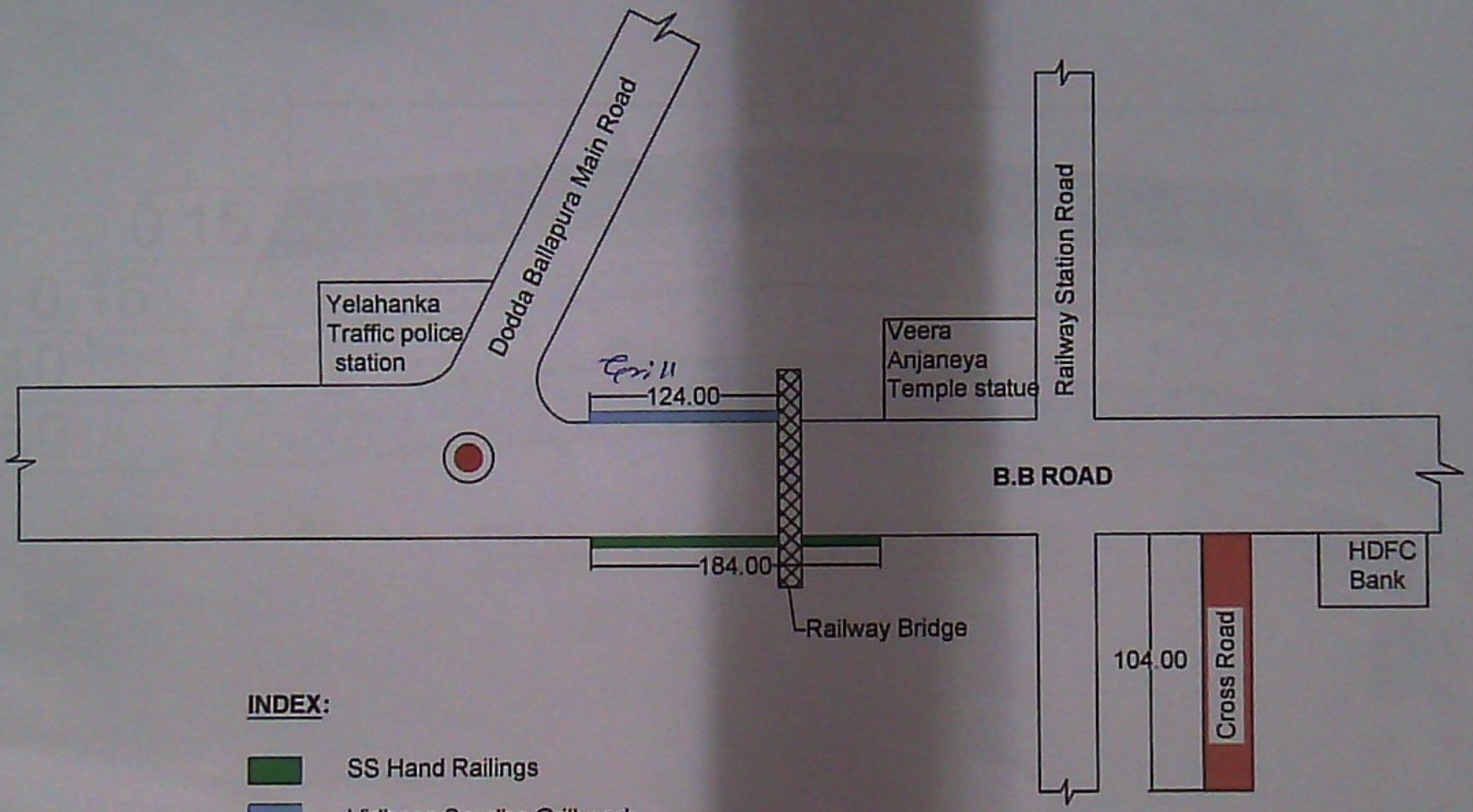
- Vidhana Soudha Grill Work
- S.S Hand Railings
- CC Road

Asst. Executive Engineer
Yelahanka Sub Divison
(BBMP Yrk. Zn)
Yelahanka, Bangalore

Name of Work: Construction of drains and providing grills at BB Road in Kempegowda Ward No. 01



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- SS Hand Railings
- Vidhana Soudha Grill work
- CC Road

Assistant Engineer
Ward No. 01

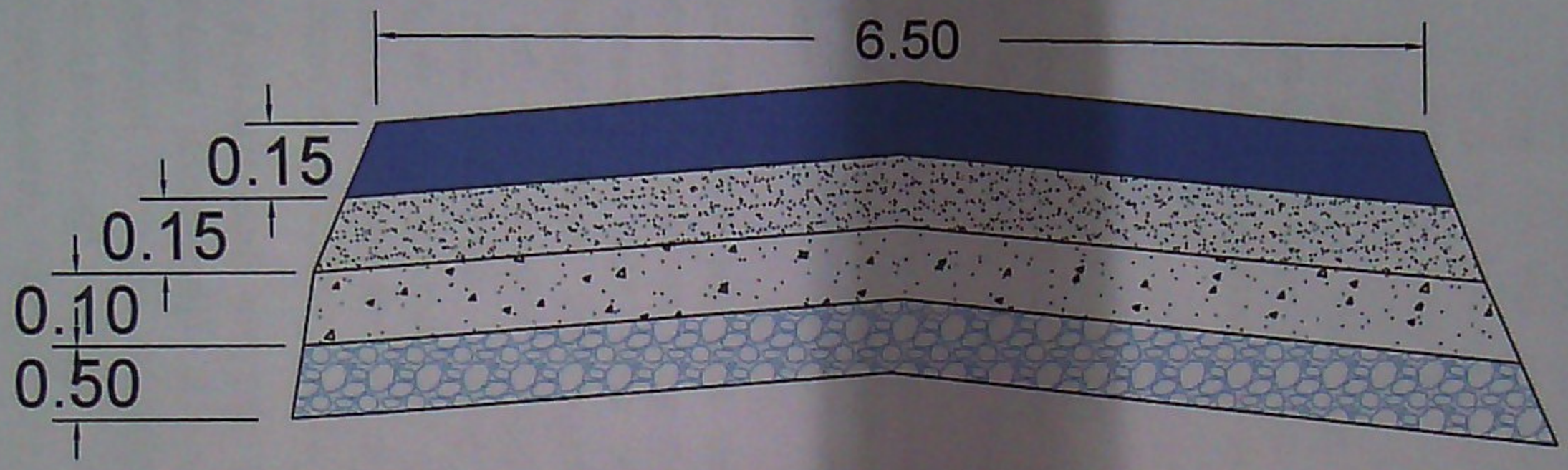
Assistant Executive Engineer
Yelahanka Sub-Division

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Executive Engineer
Yelahanka Division

All Dimensions are in meters

Name of Work:- Construction of drains and Providing grills at BB Road in Kempegowda Ward No. 01



Cross Section of CC Road

Index:-

- CC Pavement
- 1:3:6 (P.C.C)
- Wet Mix
- Gravel

Assistant Engineer
Ward No.01

Assistant Executive Engineer
Yelahanka Sub Division

Assistant Executive Engineer
Yelahanka Sub. Division
Yelahanka, Bangalore

All Dimensions are in Meters